

RECEIVED

FEB 28 2020

EMNRD-OCDARTESIA

Intent ☐ As Drilled ☒

API #

30-015-45081

Operator Name:
OXY USA INC.Property Name:
SALT FLAT CC 20-29 FEDERAL COMWell Number
32H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	20	24S	29E		580	N	1472	W	EDDY
Latitude					Longitude			NAD	
32.21193					-104.01034			NAD83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	20	24S	29E		306	N	1305	W	EDDY
Latitude					Longitude			NAD	
32.20950					-104.01089			NAD83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	29	24S	29E		357	S	1274	W	EDDY
Latitude					Longitude			NAD	
32.18211					-104.01109			NAD83	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:

Property Name:

Well Number

KZ 06/29/2018

Oilfield Services Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone: (432) 742-5400 (Main)
Fax: (432) 742-5606 (Shared)

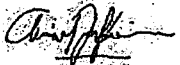
Schlumberger

Well Reference:

S17, T24S, R29E, EDDY NM
N 32.2110336 W -104.0110424

I, RAJA A. HAKEEM RAJA SHAHREEN certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 06, 2019 through January 05, 2020, conduct or supervise the taking of the SlimPulse surveys from a depth of 9101.00 feet to a depth of 20720.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA INCORPORATED for the SALT FLAT CC 20-29 FEDERAL COM 32H Well (Original Hole) API No: 30-015-45081 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

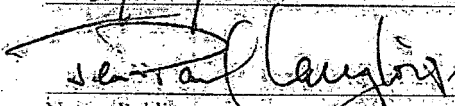
By


RAJA A. HAKEEM RAJA SHAHREEN
FE

Subscribed and Sworn to before me this 15 day of January (month) 2020 (yr)

My Commission expires:

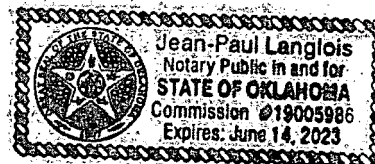
6/14/23


Notary Public

(signature)

Comanche, Oklahoma

(County, State)



Schlumberger

OXY

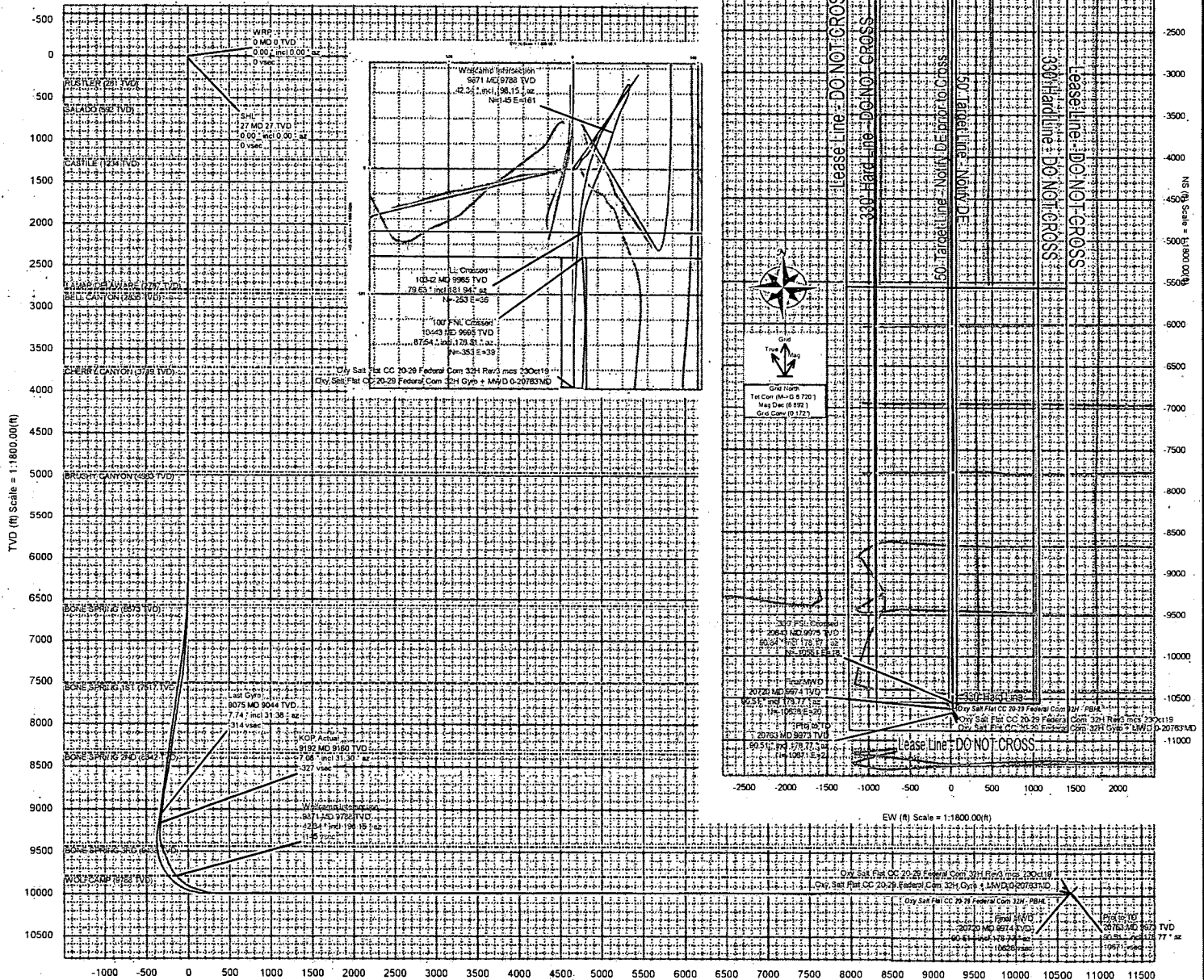


Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Salt Flat CC 20-29 Federal Com 32H	NM Eddy County (NAD 83)	Oxy Salt Flat CC 20-29 Federal Com 32H

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	IFR1	Dip:	59.92°	Date:	04-Dec-2019	Lat:	N 32.12 38.72	Northings:	440687.52NUS	Grid Conv:	0.1718"
MagDec:	5.892°	FS:	47849.1nT	Gravity FS:	999.487mgm (3.80665 Based)	Lon:	W 104.0 39.75	Easting:	641014.55NUS	Scale Fact:	0.99992047
								Plan:			
								Oxy Salt Flat CC 20-29 Federal Com 32H			
								Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763TMD			

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00
Last Gyro	9075.40	7.74	31.38	9044.13	-314.10	314.59	207.40	0.77
KOP Actual	9192.00	7.08	31.30	9159.76	-327.04	327.55	214.93	0.60
Wolfcamp Intersection	9870.84	42.34	198.15	9788.40	-144.87	145.25	161.29	13.48
LL Crossed	10342.00	79.63	181.94	9984.52	252.70	-252.62	36.02	13.16
100' FNL Crossed	10443.00	87.54	176.81	9994.76	353.00	-352.91	39.22	4.87
330' FSL Crossed	20643.00	90.84	178.17	9974.75	10550.75	-10550.73	17.73	0.88
Final MWD	20720.00	90.51	178.77	9973.85	10627.72	-10627.70	19.79	0.88
Proj to TD	20763.00	90.51	178.77	9973.47	10670.71	-10670.69	20.71	0.00



Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763 MD Survey

Geodetic Report

(Def Survey)



Report Date: January 07, 2020 - 11:34 AM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Salt Flat CC 20-29 Federal Com 32H / Oxy Salt Flat CC 20-29 Federal Com 32H Well: Oxy Salt Flat CC 20-29 Federal Com 32H Borehole: Original Borehole UW / API#: Unknown / 30-015-45081 Survey Name: Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763 MD Survey Date: November 27, 2019 Tort / AHD / DDI / ERD Ratio: 243.532' / 11474.730 ft / 6.764 / 1.148 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 12' 39.72085" W 104° 0' 39.75282" Location Grid N/E Y/X: N 440657.520 NUS, E 641014.550 NUS CRS Grid Convergence Angle: 0.1718 Grid Scale Factor: 0.99992047 Version / Patch: 2.10.787.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 179.864° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 2968.400 ft above MSL Seabed / Ground Elevation: 2941.900 ft above MSL Magnetic Declination: 6.892° Total Gravity Field Strength: 998.4672mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47849.100 nT Magnetic Dip Angle: 59.920° Declination Date: December 04, 2019 Magnetic Declination Model: IFR1 North Reference: Grid North Grid Convergence Used: 0.1718° Total Corr Mag North-Grid North: 6.7202° Local Coord Referenced To: Well Head	
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	440657.52	641014.55	N 32 12 39.72	W 104 0 39.75
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	440657.52	641014.55	N 32 12 39.72	W 104 0 39.75
	82.70	0.37	251.60	82.70	0.06	-0.06	-0.17	0.66	440657.46	641014.38	N 32 12 39.72	W 104 0 39.75
	174.60	0.41	7.12	174.60	-0.18	0.18	-0.41	0.72	440657.70	641014.14	N 32 12 39.74	W 104 0 39.76
	265.10	0.35	339.87	265.10	-0.76	0.76	-0.47	0.21	440658.28	641014.08	N 32 12 39.73	W 104 0 39.76
	356.00	0.45	322.73	355.99	-1.30	1.30	-0.78	0.17	440658.82	641013.77	N 32 12 39.73	W 104 0 39.76
	446.40	0.41	322.11	446.39	-1.84	1.84	-1.19	0.04	440659.36	641013.36	N 32 12 39.74	W 104 0 39.77
	537.50	0.10	258.64	537.49	-2.08	2.08	-1.47	0.41	440659.60	641013.08	N 32 12 39.74	W 104 0 39.77
	627.40	0.11	225.48	627.39	-2.01	2.00	-1.61	0.07	440659.52	641012.94	N 32 12 39.74	W 104 0 39.77
	718.10	0.06	233.91	718.09	-1.92	1.92	-1.71	0.06	440659.44	641012.84	N 32 12 39.74	W 104 0 39.77
	808.40	0.02	282.51	808.39	-1.90	1.89	-1.76	0.05	440659.41	641012.79	N 32 12 39.74	W 104 0 39.77
	899.00	0.04	330.92	898.99	-1.93	1.92	-1.79	0.03	440659.44	641012.76	N 32 12 39.74	W 104 0 39.77
	990.20	0.07	26.91	990.19	-2.00	2.00	-1.79	0.06	440659.52	641012.77	N 32 12 39.74	W 104 0 39.77
	1081.40	0.07	3.83	1081.39	-2.11	2.10	-1.76	0.03	440659.62	641012.79	N 32 12 39.74	W 104 0 39.77
	1172.40	0.06	308.56	1172.39	-2.19	2.19	-1.79	0.07	440659.71	641012.76	N 32 12 39.74	W 104 0 39.77
	1263.00	0.05	267.19	1262.99	-2.22	2.22	-1.87	0.04	440659.74	641012.68	N 32 12 39.74	W 104 0 39.77
	1354.50	0.09	229.68	1354.49	-2.17	2.17	-1.96	0.06	440659.69	641012.59	N 32 12 39.74	W 104 0 39.78
	1443.60	0.11	221.04	1443.59	-2.06	2.06	-2.07	0.03	440659.58	641012.48	N 32 12 39.74	W 104 0 39.78
	1534.10	0.10	249.37	1534.09	-1.97	1.97	-2.20	0.06	440659.49	641012.35	N 32 12 39.74	W 104 0 39.78
	1597.30	0.06	245.98	1597.29	-1.94	1.93	-2.28	0.06	440659.45	641012.27	N 32 12 39.74	W 104 0 39.78
	1692.10	0.10	254.69	1692.09	-1.90	1.89	-2.41	0.04	440659.41	641012.14	N 32 12 39.74	W 104 0 39.78
	1786.90	0.14	270.16	1786.89	-1.88	1.87	-2.60	0.05	440659.39	641011.95	N 32 12 39.74	W 104 0 39.78
	1881.60	0.13	270.44	1881.59	-1.88	1.87	-2.83	0.01	440659.39	641011.72	N 32 12 39.74	W 104 0 39.79
	1976.00	0.06	270.01	1975.99	-1.88	1.87	-2.98	0.07	440659.39	641011.57	N 32 12 39.74	W 104 0 39.79
	2070.70	0.12	147.01	2070.69	-1.80	1.79	-2.98	0.17	440659.31	641011.57	N 32 12 39.74	W 104 0 39.79
	2165.30	0.17	145.95	2165.29	-1.60	1.59	-2.85	0.05	440659.11	641011.70	N 32 12 39.74	W 104 0 39.79
	2260.00	0.13	227.37	2259.99	-1.41	1.40	-2.85	0.21	440658.92	641011.70	N 32 12 39.73	W 104 0 39.79
	2354.10	0.14	175.65	2354.09	-1.22	1.21	-2.92	0.13	440658.73	641011.63	N 32 12 39.73	W 104 0 39.79
	2448.90	0.17	41.97	2448.89	-1.21	1.20	-2.81	0.30	440658.72	641011.74	N 32 12 39.73	W 104 0 39.79
	2543.40	0.22	153.08	2543.39	-1.15	1.14	-2.64	0.34	440658.66	641011.91	N 32 12 39.73	W 104 0 39.78
	2638.10	0.12	164.70	2638.09	-0.89	0.89	-2.53	0.11	440658.41	641012.02	N 32 12 39.73	W 104 0 39.78
	2732.90	0.07	155.34	2732.89	-0.74	0.74	-2.48	0.06	440658.26	641012.07	N 32 12 39.73	W 104 0 39.78
	2827.20	0.07	171.63	2827.19	-0.63	0.63	-2.45	0.02	440658.15	641012.10	N 32 12 39.73	W 104 0 39.78
	2922.00	0.06	160.97	2921.99	-0.53	0.52	-2.42	0.02	440658.04	641012.13	N 32 12 39.73	W 104 0 39.78
	3016.50	0.03	167.05	3016.49	-0.46	0.45	-2.40	0.03	440657.97	641012.15	N 32 12 39.73	W 104 0 39.78
	3111.30	0.09	226.56	3111.29	-0.38	0.38	-2.45	0.08	440657.90	641012.10	N 32 12 39.72	W 104 0 39.78
	3206.00	0.07	233.48	3205.99	-0.30	0.29	-2.55	0.02	440657.81	641012.00	N 32 12 39.72	W 104 0 39.78
	3300.90	0.05	263.55	3300.89	-0.26	0.25	-2.64	0.04	440657.77	641011.91	N 32 12 39.72	W 104 0 39.78
	3395.20	0.07	292.57	3395.19	-0.28	0.27	-2.73	0.04	440657.79	641011.82	N 32 12 39.72	W 104 0 39.78
	3489.50	0.04	185.25	3489.49	-0.27	0.26	-2.79	0.10	440657.78	641011.76	N 32 12 39.72	W 104 0 39.79
	3583.80	0.02	189.13	3583.79	-0.22	0.21	-2.79	0.02	440657.73	641011.76	N 32 12 39.72	W 104 0 39.79
	3678.40	0.01	187.66	3678.39	-0.19	0.19	-2.80	0.01	440657.71	641011.75	N 32 12 39.72	W 104 0 39.79
	3772.80	0.02	355.58	3772.79	-0.20	0.20	-2.80	0.03	440657.72	641011.75	N 32 12 39.72	W 104 0 39.79
	3867.60	0.02	213.92	3867.59	-0.20	0.20	-2.81	0.04	440657.72	641011.74	N 32 12 39.72	W 104 0 39.79
	3962.40	0.05	216.64	3962.39	-0.16	0.15	-2.84	0.03	440657.67	641011.71	N 32 12 39.72	W 104 0 39.79
	4057.10	0.02	173.23	4057.09	-0.11	0.10	-2.87	0.04	440657.62	641011.68	N 32 12 39.72	W 104 0 39.79
	4151.50	0.03	222.84	4151.49	-0.07	0.07	-2.88	0.02	440657.59	641011.67	N 32 12 39.72	W 104 0 39.79
	4246.30	0.05	215.32	4246.29	-0.02	0.01	-2.92	0.02	440657.53	641011.63	N 32 12 39.72	W 104 0 39.79
	4341.00	0.05	217.53	4340.99	0.04	-0.05	-2.97	0.00	440657.47	641011.58	N 32 12 39.72	W 104 0 39.79
	4435.70	0.03	253.98	4435.69	0.08	-0.09	-3.02	0.03	440657.43	641011.53	N 32 12 39.72	W 104 0 39.79
	4530.40	0.05	225.33	4530.39	0.12	-0.13	-3.07	0.03	440657.39	641011.48	N 32 12 39.72	W 104 0 39.79
	4625.10	0.07	163.40	4625.09	0.20	-0.21	-3.09	0.07	440657.31	641011.46	N 32 12 39.72	W 104 0 39.79
	4719.80	0.04	117.99	4719.79	0.28	-0.28	-3.04	0.05	440657.24	641011.51	N 32 12 39.72	W 104 0 39.79
	4814.40	0.09	188.32	4814.39	0.36	-0.37	-3.02	0.09	440657.15	641011.53	N 32 12 39.72	W 104 0 39.79
	4909.10	0.07	136.75	4909.09	0.48	-0.49	-2.99	0.08	440657.03	641011.56	N 32 12 39.72	W 104 0 39.79
	5003.80	0.08	170.10	5003.79	0.59	-0.59	-2.94	0.05	440656.93	641011.61	N 32 12 39.72	W 104 0 39.79
	5098.40	0.07	217.20	5098.39	0.70	-0.71	-2.97	0.06	440656.81	641011.58	N 32 12 39.71	W 104 0 39.79
	5193.00	0.08	188.32	5192.99	0.81	-0.82	-3.01	0.04	440656.70	641011.54	N 32 12 39.71	W 104 0 39.79
	5287.50	0.13	206.24	5287.49	0.97	-0.98	-3.07	0.06	440656.54	641011.48	N 32 12 39.71	W 104 0 39.79
	5382.10	0.11	226.60	5382.09	1.13	-1.14	-3.18	0.05	440656.38	641011.37	N 32 12 39.71	W 104 0 39.79
	5476.60	0.11	190.43	5476.59	1.28	-1.29	-3.26	0.07	440656.23	641011.29	N 32 12 39.71	W 104 0 39.79
	5571.10	0.09	200.01	5571.09	1.44	-1.45	-3.30	0.03	440656.07	641011.25	N 32 12 39.71	W 104 0 39.79
	5665.50	0.11	199.18	5665.49	1.59	-1.60	-3.36	0.02	440655.92	641011.19	N 32 12 39.71	W 104 0 39.79
	5760.20	0.15	182.32	5760.19	1.80	-1.81	-3.39	0.06	440655.71	641011.16	N 32 12 39.70	W 104 0 39.79
	5854.80	0.17	192.70	5854.79	2.06	-2.07	-3.43	0.04	440655.45	641011.12	N 32 12 39.70	W 104 0 39.79
	5949.30	0.17	225.91	5949.28	2.30	-2.31	-3.56	0.10	440655.21	641010.99	N 32 12 39.70	W 104 0 39.79
	6043.70	0.23	219.27	6043.68	2.54	-2.55	-3.78	0.07	440654.97	641010.77	N 32 12 39.70	W 104 0 39.80
	6138.40	0.37	192.52	6138.38	2.99	-3.00	-3.97	0.21	440654.52	641010.58	N 32 12 39.69	W 104 0 39.80
	6233.20	0.30	166.36	6233.18	3.53	-3.54	-3.98	0.18	440653.98	641010.57	N 32 12 39.69	W 104 0 39.80
	6328.10	1.31	80.03	6328.07	3.58	-3.59	-2.85	1.40	440653.93	641010.70	N 32 12 39.69	W 104 0 39.79
	6422.50	2.81	80.21	6422.41	3.01	-3.01	0.49	1.59	440654.51	641010.54	N 32 12 39.69	W 104 0 39.75
	6516.90	3.81	70.24	6516.85	1.57	-1.56	5.73	1.22	440655.96	641020.27	N 32 12 39.71	W 104 0 39.69
	6611.60	3.48	57.51	6611.16	-1.02	1.05	11.11	0.92	440658.57	641025.66	N 32 12 39.73	W 104 0 39.62
	6706.20	3.73	41.65	6705.58	-4.86	4.89	15.58	1.08	440662.41	641030.13	N 32 12 39.77	W 104 0 39.57
	6801.00	4.18	38.75	6800.15	-9.84	9.89	19.79	0.52	440667.41	641034.34	N 32 12 39.82	W 104 0 39.52
	6895.80	4.56	31.30	6894.67	-15.75	15.81	23.91	0.72	440673.32	641038.46	N 32 12 39.88	W 104 0 39.42

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6989.70	4.43	25.67	6988.29	-22.20	22.26	27.42	0.49	440679.78	641041.97	N 32 12 39.54 W 104	0 39.43	
	7085.00	5.41	26.07	7083.23	-29.54	29.62	30.99	1.03	440687.13	641045.54	N 32 12 40.01 W 104	0 39.39	
	7179.60	7.20	44.15	7177.27	-37.79	37.88	37.08	2.80	440695.39	641051.63	N 32 12 40.09 W 104	0 39.32	
	7274.30	7.48	49.44	7271.19	-46.03	46.14	45.90	0.77	440703.66	641050.44	N 32 12 40.18 W 104	0 39.22	
	7368.90	8.31	43.53	7364.90	-54.97	55.10	55.28	1.23	440712.62	641059.83	N 32 12 40.26 W 104	0 39.11	
	7463.70	10.06	32.83	7458.48	-66.88	67.03	64.49	2.57	440724.55	641079.04	N 32 12 40.38 W 104	0 39.00	
	7558.30	10.92	23.70	7551.51	-82.01	82.18	72.57	1.98	440739.69	641087.12	N 32 12 40.53 W 104	0 38.91	
	7653.00	11.02	25.51	7644.48	-98.37	98.56	80.08	0.38	440756.07	641094.62	N 32 12 40.69 W 104	0 38.82	
	7747.70	10.72	33.61	7737.48	-113.85	114.07	88.85	1.64	440771.58	641103.39	N 32 12 40.85 W 104	0 38.71	
	7842.50	10.10	42.65	7830.73	-127.29	127.52	99.36	1.84	440785.03	641113.90	N 32 12 40.98 W 104	0 38.59	
	7937.30	11.08	39.61	7923.91	-140.39	140.66	110.80	1.19	440798.16	641125.34	N 32 12 41.11 W 104	0 38.46	
	8032.10	11.45	31.67	8016.89	-155.39	155.68	121.55	1.68	440813.19	641136.09	N 32 12 41.26 W 104	0 38.33	
	8126.60	10.78	29.17	8109.62	-171.07	171.38	130.78	0.87	440828.89	641145.32	N 32 12 41.41 W 104	0 38.22	
	8221.00	8.88	28.86	8202.63	-185.14	185.47	138.60	2.01	440842.98	641153.14	N 32 12 41.55 W 104	0 38.13	
	8315.60	8.70	32.40	8296.12	-197.56	197.91	145.96	0.60	440855.41	641160.50	N 32 12 41.67 W 104	0 38.05	
	8410.40	9.98	28.63	8389.66	-210.81	211.17	153.74	1.50	440868.68	641168.28	N 32 12 41.81 W 104	0 37.96	
	8504.90	10.66	26.50	8482.63	-225.80	226.18	161.56	0.83	440883.69	641176.10	N 32 12 41.95 W 104	0 37.86	
	8599.50	11.51	25.01	8575.47	-242.16	242.57	169.46	0.95	440900.07	641183.99	N 32 12 42.12 W 104	0 37.77	
	8694.10	11.53	25.81	8668.16	-259.21	259.63	177.56	0.17	440917.13	641192.10	N 32 12 42.28 W 104	0 37.68	
	8788.60	11.86	28.71	8760.70	-276.21	276.65	186.34	0.71	440934.15	641200.88	N 32 12 42.45 W 104	0 37.57	
	8883.10	8.75	30.99	8853.67	-290.87	291.33	194.71	3.32	440948.83	641209.24	N 32 12 42.60 W 104	0 37.48	
	8977.60	7.62	25.84	8947.20	-302.66	303.14	201.14	1.42	440960.63	641215.68	N 32 12 42.71 W 104	0 37.40	
	9075.40	7.74	31.38	9044.13	-314.10	314.59	207.40	0.77	440972.09	641221.93	N 32 12 42.83 W 104	0 37.33	
	9101.00	7.55	29.07	9069.50	-317.04	317.54	209.11	1.41	440975.03	641223.65	N 32 12 42.86 W 104	0 37.31	
	9192.00	7.08	31.30	9159.76	-327.04	327.55	214.93	0.60	440985.05	641229.46	N 32 12 42.96 W 104	0 37.24	
	9274.00	5.92	28.50	9241.23	-335.07	335.59	219.57	1.47	440993.08	641234.11	N 32 12 43.04 W 104	0 37.19	
	9368.00	5.07	136.64	9334.99	-336.30	336.83	224.75	9.48	440994.32	641239.28	N 32 12 43.05 W 104	0 37.13	
	9462.00	17.55	184.63	9427.12	-319.05	319.59	226.47	15.57	440977.08	641241.00	N 32 12 42.88 W 104	0 37.11	
	9556.00	25.78	201.42	9514.48	-285.83	286.35	217.83	10.88	440943.84	641232.37	N 32 12 42.55 W 104	0 37.21	
	9650.00	23.45	209.44	9599.96	-250.54	251.01	201.17	4.33	440908.51	641215.70	N 32 12 42.20 W 104	0 37.40	
	9744.00	28.16	199.50	9684.60	-213.34	213.78	184.55	6.79	440871.28	641199.09	N 32 12 41.83 W 104	0 37.60	
	9839.00	38.05	198.49	9764.08	-164.36	164.76	167.74	10.43	440822.27	641182.28	N 32 12 41.35 W 104	0 37.79	
Wolfcamp Intersection	9870.84	42.34	198.15	9788.40	-144.87	145.25	161.29	13.48	440802.76	641175.83	N 32 12 41.15 W 104	0 37.87	
	9933.00	50.71	197.62	9831.13	-102.01	102.36	147.46	13.48	440759.88	641162.00	N 32 12 40.73 W 104	0 38.03	
	10027.00	58.25	201.06	9885.71	-29.99	30.28	122.05	8.55	440687.80	641136.59	N 32 12 40.02 W 104	0 38.33	
	10121.00	71.64	203.19	9925.43	-48.60	48.39	89.97	14.39	440609.14	641104.52	N 32 12 39.24 W 104	0 38.71	
	10215.00	73.73	199.65	9953.42	-132.05	131.91	57.22	4.23	440525.62	641071.77	N 32 12 38.41 W 104	0 39.09	
	10310.00	76.54	184.86	9977.91	-221.46	221.37	37.87	15.33	440436.17	641052.42	N 32 12 37.53 W 104	0 39.32	
LL Crossed	10342.00	79.63	181.94	9984.52	-252.70	252.72	36.02	13.16	440404.92	641050.57	N 32 12 37.22 W 104	0 39.34	
	10404.00	85.68	176.42	9992.45	-314.13	314.05	36.92	13.16	440343.50	641051.47	N 32 12 36.61 W 104	0 39.33	
100' FNL Crossed	10443.00	87.54	176.81	9994.76	-353.00	352.91	39.22	4.87	440304.64	641053.77	N 32 12 36.23 W 104	0 39.31	
	10498.00	90.16	177.36	9995.86	-407.92	407.82	42.02	4.87	440249.73	641056.56	N 32 12 35.68 W 104	0 39.28	
	10551.00	90.31	177.66	9995.64	-460.88	460.77	44.32	0.63	440196.79	641058.86	N 32 12 35.16 W 104	0 39.25	
	10644.00	90.17	178.00	9995.25	-553.82	553.70	47.84	0.40	440103.86	641062.39	N 32 12 34.24 W 104	0 39.22	
	10737.00	90.31	181.42	9994.86	-646.80	646.69	48.31	3.68	440010.88	641062.86	N 32 12 33.32 W 104	0 39.21	
	10830.00	90.17	182.88	9994.47	-739.72	739.62	44.82	1.58	439917.96	641059.37	N 32 12 32.40 W 104	0 39.26	
	10924.00	90.31	182.66	9994.08	-833.51	833.41	40.28	0.28	439824.08	641054.83	N 32 12 31.47 W 104	0 39.31	
	11017.00	90.41	183.16	9993.50	-926.47	926.39	35.56	0.55	439731.21	641050.10	N 32 12 30.55 W 104	0 39.37	
	11110.00	90.10	182.40	9993.08	-1019.35	1019.28	31.05	0.88	439638.33	641045.59	N 32 12 29.63 W 104	0 39.43	
	11203.00	90.24	181.57	9992.81	-1112.22	1112.22	27.83	0.91	439545.39	641042.37	N 32 12 28.71 W 104	0 39.47	
	11296.00	89.93	180.00	9992.67	-1205.27	1205.21	26.55	1.72	439452.41	641041.10	N 32 12 27.79 W 104	0 39.49	
	11389.00	90.10	180.95	9992.64	-1298.26	1298.20	25.78	1.04	439359.42	641040.33	N 32 12 26.87 W 104	0 39.50	
	11482.00	90.31	181.87	9992.31	-1391.22	1391.17	23.49	1.01	439266.46	641038.04	N 32 12 25.95 W 104	0 39.53	
	11575.00	90.41	181.00	9991.73	-1484.19	1484.14	21.16	0.94	439173.50	641035.71	N 32 12 25.03 W 104	0 39.56	
	11668.00	90.31	180.78	9991.14	-1577.17	1577.13	19.72	0.26	439080.52	641034.27	N 32 12 24.11 W 104	0 39.58	
	11762.00	90.41	180.68	9990.55	-1671.16	1671.12	18.52	0.15	438986.54	641033.07	N 32 12 23.18 W 104	0 39.60	
	11855.00	90.44	180.65	9989.86	-1764.11	1764.11	17.44	0.05	438893.55	641031.99	N 32 12 22.26 W 104	0 39.61	
	11948.00	90.51	181.03	9989.09	-1857.13	1857.10	16.08	0.42	438800.58	641030.63	N 32 12 21.34 W 104	0 39.63	
	12041.00	90.24	180.40	9988.48	-1950.12	1950.09	14.92	0.74	438707.59	641029.47	N 32 12 20.42 W 104	0 39.65	
	12135.00	90.58	181.34	9987.81	-2044.07	2044.07	13.49	1.06	438613.62	641028.04	N 32 12 19.49 W 104	0 39.67	
	12228.00	90.24	180.91	9987.15	-2137.07	2137.05	11.66	0.59	438520.64	641026.21	N 32 12 18.57 W 104	0 39.69	
	12321.00	90.27	180.64	9986.73	-2230.06	2230.04	10.41	-0.29	438427.66	641024.96	N 32 12 17.65 W 104	0 39.71	
	12414.00	90.41	179.62	9986.18	-2323.06	2323.04	10.20	1.11	438334.67	641024.74	N 32 12 16.73 W 104	0 39.72	
	12501.00	89.86	179.86	9985.74	-2510.05	2510.03	11.04	0.32	438147.69	641025.59	N 32 12 14.88 W 104	0 39.71	
	12587.00	90.93	181.02	9984.46	-2696.02	2696.02	9.62	0.85	437961.72	641024.17	N 32 12 13.04 W 104	0 39.73	
	12680.00	90.17	181.00	9983.56	-2789.01	2789.00	7.98	0.82	437868.75	641022.53	N 32 12 12.12 W 104	0 39.76	
	12773.00	90.40	180.98	9983.26	-2881.99	2881.99	6.37	0.04	437775.77	641020.92	N 32 12 11.20 W 104	0 39.78	
	12866.00	90.48	180.69	9982.70	-2976.98	2976.98	5.72	1.28	437680.78	641020.27	N 32 12 10.26 W 104	0 39.79	
	12959.00	90.24	181.41	9981.94	-3070.98	3070.97	5.32	0.95	437586.80	641019.87	N 32 12 9.33 W 104	0 39.80	
	13052.00	91.20	181.58	9980.19	-3165.96	3165.96	3.58	0.79	437491.82	641018.13	N 32 12 8.39 W 104	0 39.82	
	13147.00	89.58	179.97	9979.54	-3260.91	3260.92	1.10	1.03	437396.87	641015.65	N 32 12 7.45 W 104	0 39.85	
	13241.00	89.86	180.21	9980.00	-3355.89	3355.89	-0.18	2.40	437301.90	641014.37	N 32 12 6.51 W 104	0 39.87	
	13336.00	90.31	180.81	9979.86	-3449.89	3449.89	-0.33	0.39	437207.90	641014.22	N 32 12 5.58 W 104	0 39.88	
	13431.00	90.24	180.33	9979.40	-3544.88	3544.88	-1.18	0.79	437112.92	641013.37	N 32 12 4.64 W 104	0 39.89	
	13526.00	90.20	180.77	9979.04	-3639.87	3639.89	-2.12	0.51	437017.93	641012.43	N 32 12 3.70 W 104	0 39.90	
	13621.00	90.20	180.36	9978.71	-3734.88	3734.88	-3.03	0.47	436922.94	641011.52	N 32 12 2.76 W 104	0 39.92	
	13716.00	89.82	180.01	9978.69	-3829.88	3829.88	-3.97	0.43	436827.96	641010.58	N 32 12 1.82 W 104	0 39.93	
	13811.00	90.48	180.4										

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° '")	Longitude (E/W ° ° '")
	17511.00	90.55	180.62	9985.21	7419.28	-7419.21	36.72	1.97	433238.92	641051.27	N 32 11 26.31 W 104	0 39 58
	17606.00	90.31	180.76	9984.50	7514.26	-7514.20	35.58	0.29	433143.93	641050.12	N 32 11 25.37 W 104	0 39 60
	17700.00	91.27	182.08	9983.21	7608.22	-7608.16	33.25	1.74	433049.98	641047.80	N 32 11 24.44 W 104	0 39 63
	17794.00	90.20	180.91	9982.00	7702.17	-7702.12	30.80	1.69	432956.03	641045.34	N 32 11 23.51 W 104	0 39 66
	17888.00	90.07	180.25	9981.78	7796.16	-7796.11	29.85	0.72	432862.05	641044.39	N 32 11 22.58 W 104	0 39 68
	18077.00	90.17	180.37	9981.38	7985.15	-7985.11	28.82	0.08	432673.05	641043.37	N 32 11 20.71 W 104	0 39 70
	18265.00	90.20	181.12	9980.78	8173.13	-8173.09	26.38	0.40	432485.10	641040.93	N 32 11 18.85 W 104	0 39 73
	18360.00	90.27	180.26	9980.39	8268.12	-8268.08	25.23	0.91	432390.11	641039.78	N 32 11 17.91 W 104	0 39 75
	18454.00	90.31	180.73	9979.91	8362.11	-8362.07	24.42	0.50	432296.13	641038.97	N 32 11 16.98 W 104	0 39 76
	18549.00	90.24	180.24	9979.45	8457.10	-8457.07	23.62	0.52	432201.14	641038.17	N 32 11 16.04 W 104	0 39 77
	18643.00	90.27	180.57	9979.04	8551.10	-8551.07	22.95	0.35	432107.15	641037.50	N 32 11 15.11 W 104	0 39 78
	18738.00	90.31	180.90	9978.55	8646.08	-8646.06	21.73	0.35	432012.17	641036.28	N 32 11 14.17 W 104	0 39 80
	18833.00	90.75	180.91	9977.68	8741.06	-8741.04	20.23	0.46	431917.19	641034.78	N 32 11 13.23 W 104	0 39 82
	19022.00	90.55	181.23	9975.53	8930.01	-8930.00	16.71	0.20	431728.25	641031.25	N 32 11 11.36 W 104	0 39 87
	19212.00	89.86	179.92	9974.85	9119.99	-9119.98	14.80	0.78	431538.28	641029.35	N 32 11 9.48 W 104	0 39 90
	19402.00	90.20	180.93	9974.75	9309.98	-9309.97	13.39	0.56	431348.31	641027.94	N 32 11 7.60 W 104	0 39 92
	19496.00	90.03	180.87	9974.56	9403.96	-9403.96	11.91	0.19	431254.33	641026.46	N 32 11 6.67 W 104	0 39 94
	19685.00	90.17	180.94	9974.23	9592.93	-9592.94	8.93	0.08	431065.37	641023.48	N 32 11 4.80 W 104	0 39 98
	19780.00	90.55	180.30	9973.64	9687.92	-9687.93	7.90	0.78	430970.38	641022.45	N 32 11 3.86 W 104	0 40 00
	19968.00	88.11	180.18	9975.84	9875.89	-9875.90	7.11	1.30	430782.43	641021.66	N 32 11 2.00 W 104	0 40 01
	20063.00	89.89	179.84	9977.49	9970.87	-9970.88	7.10	1.91	430687.45	641021.65	N 32 11 1.06 W 104	0 40 02
	20252.00	90.06	179.62	9977.58	10159.87	-10159.88	7.99	0.15	430498.47	641022.54	N 32 10 59.19 W 104	0 40 01
	20347.00	90.96	178.51	9976.73	10254.85	-10254.86	9.54	1.50	430403.50	641024.09	N 32 10 58.25 W 104	0 40 00
	20441.00	89.72	178.53	9976.17	10348.82	-10348.82	11.96	1.32	430309.54	641026.51	N 32 10 57.32 W 104	0 39 97
	20536.00	90.44	178.46	9976.04	10443.80	-10443.79	14.46	0.76	430214.58	641029.01	N 32 10 56.38 W 104	0 39 95
	20630.00	90.89	178.07	9974.95	10537.75	-10537.74	17.31	0.63	430120.64	641031.85	N 32 10 55.45 W 104	0 39 92
330' FSL Crossed	20643.00	90.84	178.17	9974.75	10550.75	-10550.73	17.73	0.88	430107.65	641032.28	N 32 10 55.32 W 104	0 39 91
Final MWD	20720.00	90.51	178.77	9973.85	10627.72	-10627.70	19.79	0.88	430030.69	641034.33	N 32 10 54.56 W 104	0 39 89
Proj to TD	20763.00	90.51	178.77	9973.47	10670.71	-10670.69	20.71	0.00	429987.70	641035.26	N 32 10 54.13 W 104	0 39 88

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763'MD
	1	26.500	26.500	Act Stns	26.400	26.400	GYD_GC+DROP+OH-Depth Only	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763'MD
	1	26.500	9075.400	Act Stns	26.400	26.400	GYD_GC+DROP+OH	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 32H Gyro
	1	9075.400	20763.000	Act Stns	26.400	26.400	A010Mb_MWD+IFR1+SAG+MS	Original Borehole / Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763'MD

...Original Borehole/Oxy Salt Flat CC 20-29 Federal Com 32H Gyro + MWD 0-20763'MD

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Adrienne E. Sandoval, Director
Oil Conservation Division



November 21, 2019

Ms. Jana Mendiola
janalyn_mendiola@oxy.com

NON-STANDARD LOCATION

Administrative Order NSL-7947

Oxy USA, Inc. [OGRID 16696]
Salt Flat CC 20 29 Federal Com Well No. 32H
API No. 30-015-45081

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	252 FSL & 1257 FWL	M	17	24S	29E	Eddy
First Take Point	100 FSL & 1260 FWL	D	20	24S	29E	Eddy
Last Take Point	300 FNL & 1262 FWL	M	29	24S	29E	Eddy
Terminus	20 FNL & 1260 FWL	M	29	24S	29E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
W2 of Section 20	640	Purple Sage; Wolfcamp (GAS)	98220
W2 of Section 29			

Reference is made to your application received on October 21, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules (R-14262) for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the northern edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 17, encroachment to the SW/4

Administrative Order NSL-7947
Oxy USA, Inc.
November 21, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in 19.15.2.7(A)(8) NMAC, in all adjoining units towards which the proposed location encroaches.

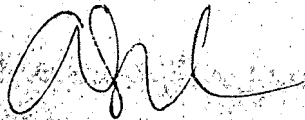
The Division understands you seek this unorthodox location as an efficient spacing of your horizontal wells, thereby preventing waste within the Wolfcamp formation underlying the W2 of Section 20 and Section 29.

Your application has been filed under 19.15.16.15(C)(6) NMAC, 19.15.15.13 NMAC and 19.15.4.12 (A)(2) NMAC.

Per 19.15.15.13(B) NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



ADRIENNE E. SANDOVAL
Division Director

AES/rl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office